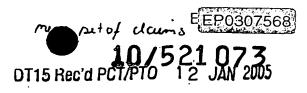




PTO 32



We claim:

	1.	A proces	ss for preparing	a catalyst solid for olefin polymerization by bring	ing
5		A)		ganic transition metal compound,	EPO - DG 1
		В)	at least one or	ganometallic compound of formula (V)	1 4. 07. 2004 (76)
10				$M^{1}(R^{1})_{r}(R^{2})_{s}(R^{3})_{t}$ (V)	
10			where		
		• .	. M ¹	is an alkali metal, an alkaline earth metal or a roof the Periodic Table,	netal of group 13
15			R ¹	is hydrogen, C_1 - C_{10} -alkyl, C_6 - C_{15} -aryl, halo- C_1 - C_6 - C_{15} -aryl, C_7 - C_{40} -arylalkyl, C_7 - C_{40} -alkylaryl, halo- C_7 - C_{40} -arylalkyl or h	C ₁ -C ₁₀ -alkoxy or
20		•	R ² and R ³	are each hydrogen, halogen, C_1 - C_{10} -alkyl, C_6 - C_{10} -alkyl, halo- C_6 - C_{15} -aryl, C_7 - C_{40} -arylalkyl, C_1 - C_{10} -alkoxy or halo- C_7 - C_{40} -alkylaryl, halo- C_7 -halo- C_1 - C_{10} -alkoxy,	C ₇ -C ₄₀ -alkylaryl,
25			r	is an integer from 1 to 3	
			and		•
30			s and t	are integers from 0 to 2, where the sum r+s+t of valence of M ¹ ,	corresponds to the
		C)	active hydroge	ganic compound having at least one functional g n, wherein the functional group is selected from ydroxyl groups, primary and secondary amino g	the groups
35			groups, silanol	groups, carboxyl groups, amido groups and imi	do groups,
		D)	at least one Le	wis base and	
40		E)	at least one su	pport,	





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into contact with one another, wherein the components are combined in any order without any isolation of an intermediate.

- A process for preparing a catalyst solid for olefin polymerization as claimed in claim 1,
 wherein the component B) used is a mixture of at least two different organometallic compounds.
- A process for preparing a catalyst solid for olefin polymerization as claimed in claim 2, wherein the component B) used is a mixture of at least one aluminum-containing organometallic compound and at least one boron-containing organometallic compound.
 - 4. A process for preparing a catalyst solid for olefin polymerization as claimed in claim 2 or 3, wherein the component B) comprises at least two different aluminum-containing organometallic compounds.
 - A process for preparing a catalyst solid for olefin polymerization as claimed in any of claims
 to 4, wherein the functional groups containing active hydrogen of the component C) are
 hydroxyl groups.
- 20 6. A process for preparing a catalyst solid for olefin polymerization as claimed in claim 5, wherein the component C is a compound of formula (VI)

$$(R^4)_{x} - A - (OH)_{y}$$
 (VI)

where

25

15

- A is an atom of group 13, 14 or 15 of the Periodic Table or a group comprising from 2 to 20 carbon atoms,
- are identical or different and are each, independently of one another, hydrogen,
 halogen, C₁-C₂₀-alkyl, C₁-C₂₀-haloalkyl, C₁-C₁₀-alkoxy, C₆-C₂₀-aryl, C₆-C₂₀haloaryl, C₆-C₂₀-aryloxy, C₇-C₄₀-arylalkyl, C₇-C₄₀-haloarylalkyl, C₇-C₄₀-alkylaryl or
 C₇-C₄₀-haloalkylaryl or R⁴ is an OSiR₃⁵ group, where
- are identical or different and are each hydrogen, halogen, C_1 - C_{20} -alkyl, C_1 - C_{20} -35 haloalkyl, C_1 - C_{10} -alkoxy, C_6 - C_{20} -aryl, C_6 - C_{20} -haloaryl, C_6 - C_{20} -aryloxy, C_7 - C_{40} -arylalkyl, C_7 - C_{40} -haloarylalkyl, C_7 - C_{40} -h
 - y is at least 1 and
- 40 x is an integer from 0 to 41.

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A. CLASSIFICATION OF SUBJECT MATTER
IPC 7 CO8F110/06 CO8F4/642

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols) IPC 7 CO8F

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal, CHEM ABS Data

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Special categories of cited documents:	*T* later document published after the international filing date		
'A' document defining the general state of the art which is not considered to be of particular relevance	or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention		
'E' earlier document but published on or after the international filing date	"X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to		
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'P' document published prior to the international filing date but later than the priority date claimed	in the art. '&' document member of the same patent family		
Date of the actual completion of the international search	Date of mailing of the international search report		
9 January 2004	16/01/2004		
Name and mailing address of the ISA	Authorized officer		
European Patent Office, P.B. 5818 Patentlaan 2 NL – 2280 HV Rijswijk			
Tel. (+31-70) 340-2040, Tx. 31 651 epo nl, Fax: (+31-70) 340-3016	Parry, J		

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